



PIE DIFFUSION

4 Rue des Maraîchers, ZAC des Communes

78260 ACHERES

Tél : 01.39.11.61.62, Fax : 01.39.11.72.00

E-mail : Piediffusion@piediffusion.com

www.piediffusion.com

Automated Stencil Printer

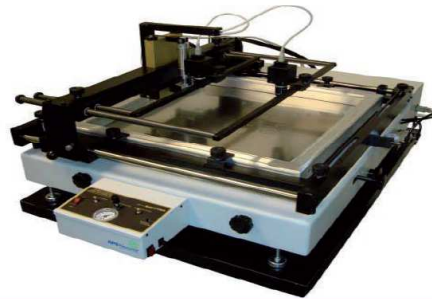
SPR-45VA SMTrue™ Vision Assist Stencil Printer

Your Economical Solution for:

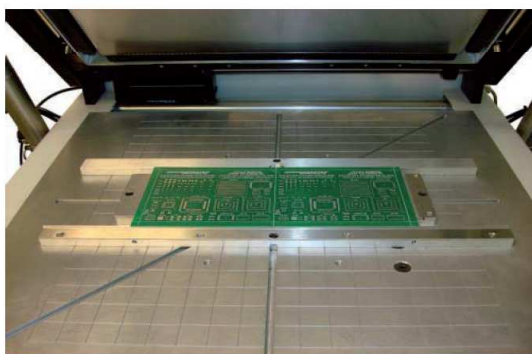
Prototyping

Short to Medium Run, High Mix
Production Environments

Printing for Ultra-fine QFPs, MicroBGAs,
and CSPs



- High Magnification - 10X SMTrue Vision Assist for precise alignment of components down to 12 mil pitch
- Accurate stencil to board alignment the first time...every time
- Ultra fast, convenient, single and double-sided PCB loading and unloading
- Repeatable fine X, Y, Z, and Theta positional adjustments



SPR-45VA Double Nesting Kit (optional) is spring loaded for quick board changes and enables stenciling of single and double sided PCB boards.

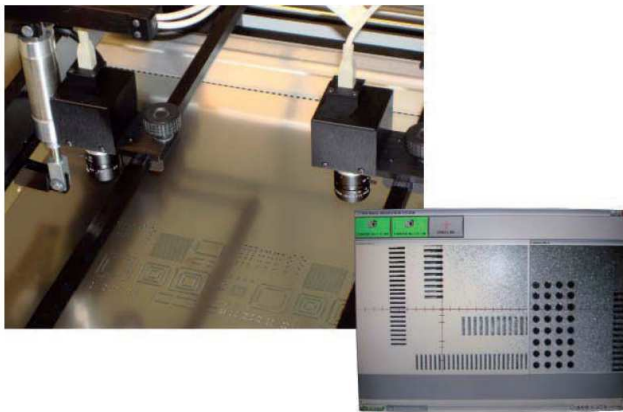
System Features

- SMTrue Vision Assist 10X magnification, axial alignment of stencil to board down to 12 mil ultra fine pitch, single or dual camera, software, communication cabling, and computer
- Pneumatic adjustable power sweep squeegee for printing with single or dual stroke
- Power frame lift for higher volume production
- Fine X, Y, and Theta adjustments for exact, repeatable stencil to board print alignment
- Single Z-axis self leveling adjustment
- Quick change spring loaded double sided PCB nesting kit
- PCB vacuum hold down (optional)
- Adjustable frame holder compatible with all tubular or cast 23" x 23" framed stencils
- Adjustable, reproducible angle-of-attack squeegee adjustments
- Dual squeegee holder (urethane or metal) with independent print force adjustment for clean, convenient applications of solder paste.

PRODUCT SPECIFICATIONS:

Printing Resolution	Down to 12 mil pitch components
Dual Squeegee	Yes
Urethane or Metal Squeegee	machine supplied with 2 of each type squeegee
Single or double pass	Yes
Linear squeegee guide	Automatic
Adjustable angle of attack	Yes
Adjustable squeegee pressure	Pneumatic
Adjustable squeegee speed	Pneumatic
Maximum print area	16" x 18" (406mm x 457mm)
Compatible stencil frame size	up to 23" x 23" (584mm x 584mm)
Foil Frame compatibility	Yes
Automatic power frame lift	Yes

X & Y adjustment	± 0.5000" (12.7mm)
Z axis adjustment	0 to 5/8" (16mm) single knob, self-leveling
Theta adjustment	Single knob to ± 5 degrees
Clear Lexan® fixture for initial registration	Yes (X, Y, and Theta)
Nesting kits for single and double sided PCBs	Quick exchange, spring loaded
Vacuum hold down option	Yes
Outside frame dimensions	23" x 23" (584mm x 584mm)
Air Pressure	80 psi (5 bar)
System Dimensions (H x W x D)	16" x 30" x 35" (406mm x 762mm x 889mm)
Height with stand option	47" (1194mm)
Approximate Weight	160 lbs (68kg)
Power	120 VAC, 50/60Hz, 2Amp (220-240 VAC available)



Dual cameras provide axial vision alignment of the PCB board to the stencil for precise delivery of solder paste.

